

Total Solar Eclipse of 2027 Aug 02

Greatest Eclipse = 10:07:50.2 TD (= 10:06:37.4 UT1)

Eclipse Magnitude = 1.0790

Saros Series = 136

Gamma = 0.1421

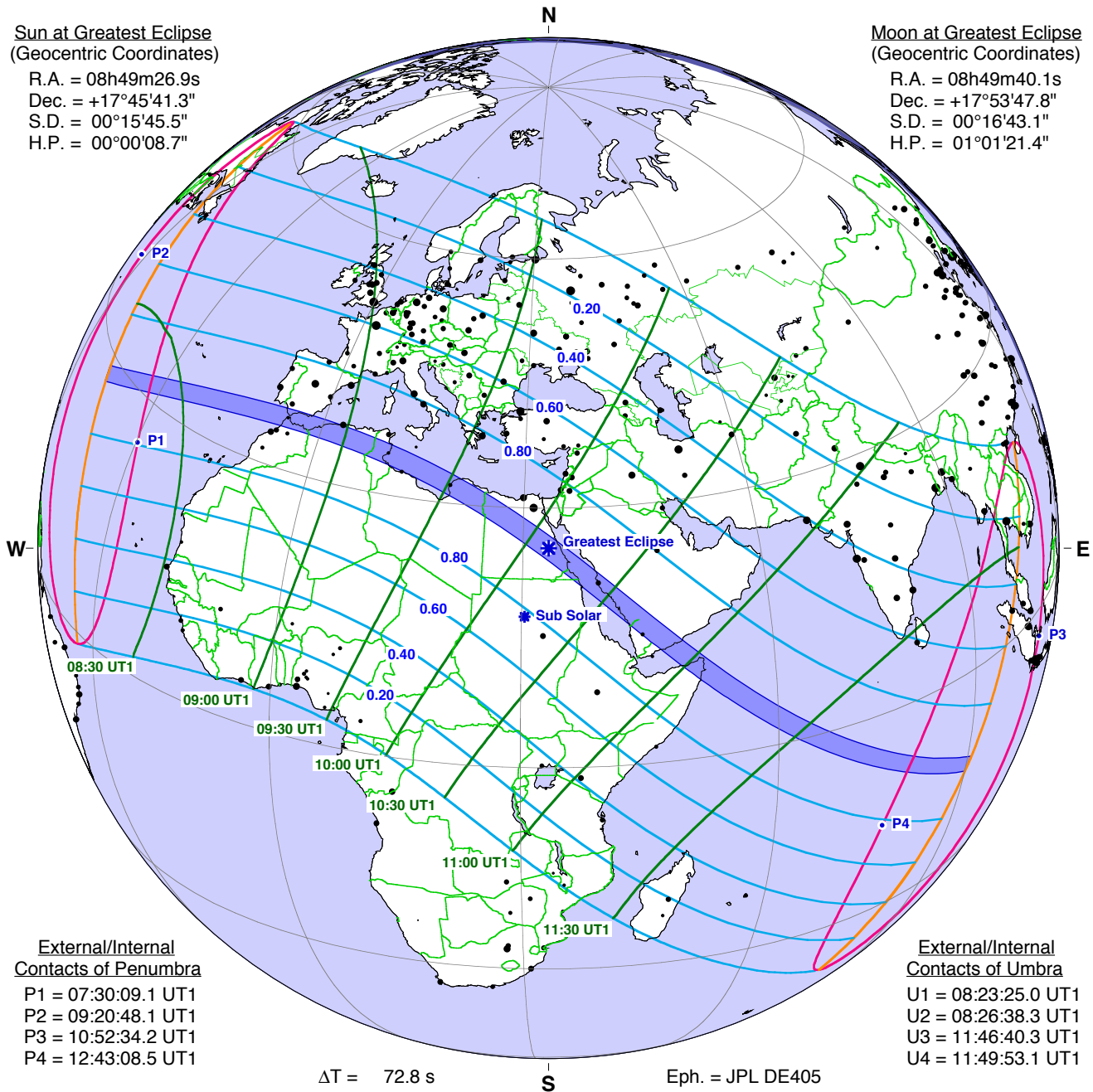
Saros Member = 38 of 71

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 08h49m26.9s
Dec. = +17°45'41.3"
S.D. = 00°15'45.5"
H.P. = 00°00'08.7"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 08h49m40.1s
Dec. = +17°53'47.8"
S.D. = 00°16'43.1"
H.P. = 01°01'21.4"



External/Internal
Contacts of Penumbra

P1 = 07:30:09.1 UT1
P2 = 09:20:48.1 UT1
P3 = 10:52:34.2 UT1
P4 = 12:43:08.5 UT1

External/Internal
Contacts of Umbra

U1 = 08:23:25.0 UT1
U2 = 08:26:38.3 UT1
U3 = 11:46:40.3 UT1
U4 = 11:49:53.1 UT1

$\Delta T = 72.8$ s

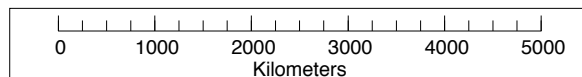
Eph. = JPL DE405

Circumstances at Greatest Eclipse: 10:06:37.4 UT1

Lat. = 25°30.2'N Sun Alt. = 81.7°
Long. = 033°11.0'E Sun Azm. = 202.0°
Path Width = 257.7 km Duration = 06m22.6s

Circumstances at Greatest Duration: 10:00:20.9 UT1

Lat. = 26°48.9'N Sun Alt. = 80.9°
Long. = 031°07.9'E Sun Azm. = 177.8°
Path Width = 257.2 km Duration = 06m23.2s



©2016 F. Espenak
www.EclipseWise.com